TECHSTYLE

Discover the magic of **3DF**ashion Technology

The Flower of Life
By **Ada Hefetz**
in collaboration with STRATASYS

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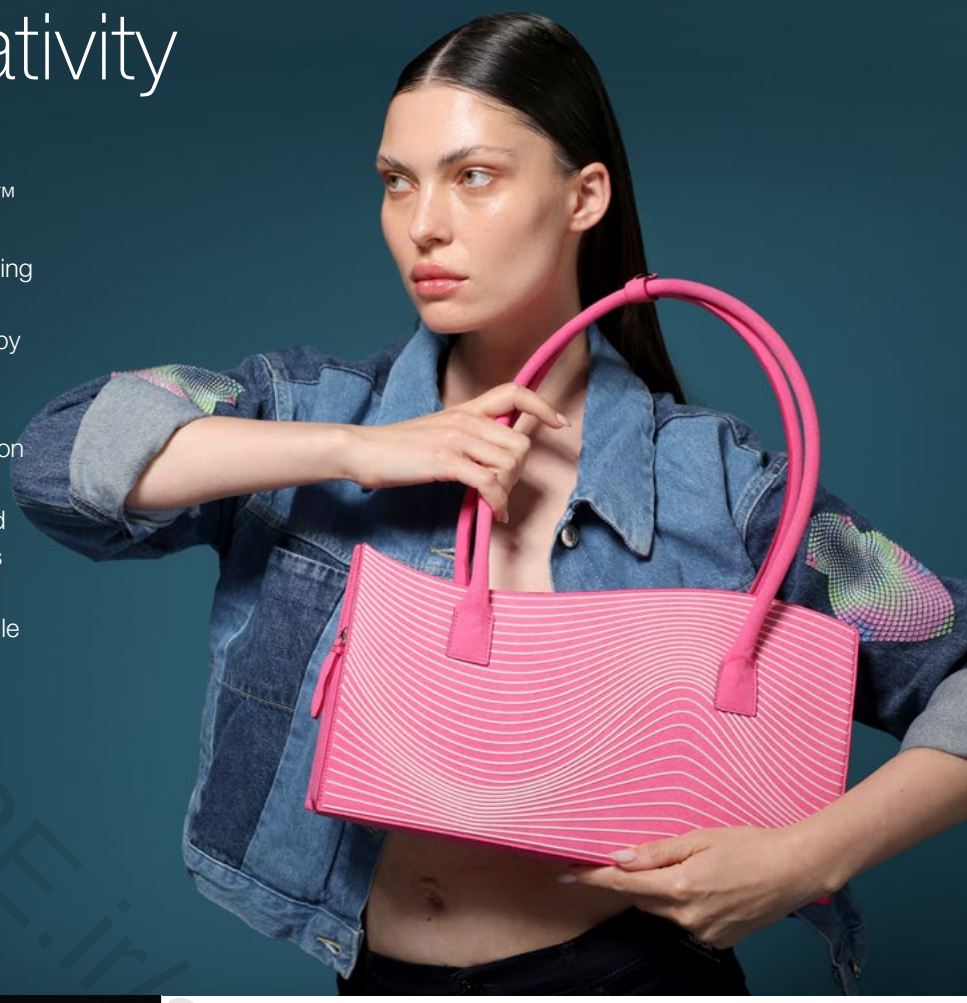
stratasys

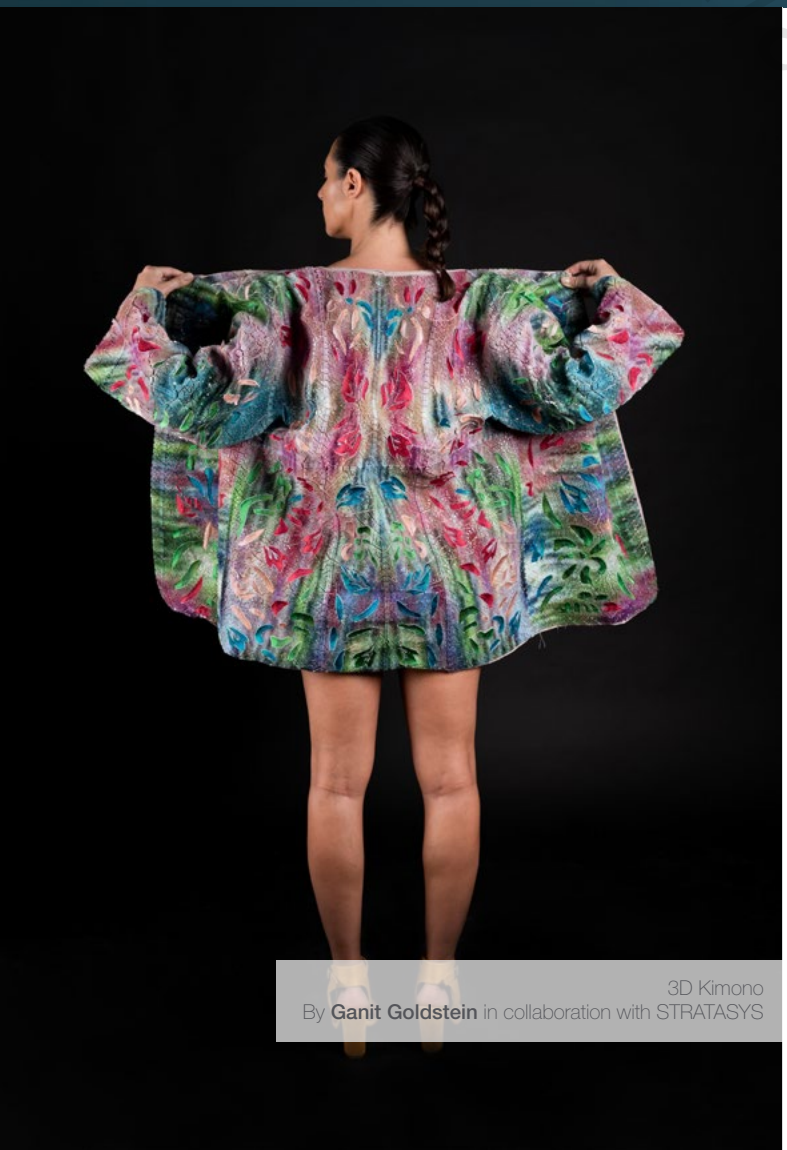
J850™ TechStyle™

Limitless Creativity

Stratasys J850™ TechStyle™ 3D printer is making waves with its revolutionary 3DFashion™ printing technology. For the first time ever, 3D algorithms can be printed direct-to-textile, creating fascinating illusions with color and light. Digital 3D design and aesthetics can now be created by a computer-generated design flow, that cannot be completed manually. In an industry where it was once not possible, TechStyle enables fashion designers to truly unleash their imagination with limitless creations and unparalleled flexibility and eco-friendly materials. With multiple advantages over traditional forms of design, you can create fantastic optical illusionary effects, direct to textile and garments, in clear print and in full color.



DIGIBAG
By **Karim Rashid** in collaboration with STRATASYS
Urban Tattoos - Direct-to-Textile
By **Travis Fitsh** in collaboration with STRATASYS



3D Kimono
By **Ganit Goldstein** in collaboration with STRATASYS

Certified Materials

Printing with the TechStyle 3D printer can be done safely and responsibly, thanks to the patent pending VeroEco™ Flex family of materials. This family of semi-flexible materials are soft to the touch and boast vivid colors and robust adhesion to multiple types of fabrics, so garments stay intact through most standard machine wash cycles. What's more, VeroEco Flex materials are at the forefront of sustainability according to stringent industry standards. These semi-flexible materials are compliant with RSL (Restricted Substances List for Finished Products) industry standards for sustainability.

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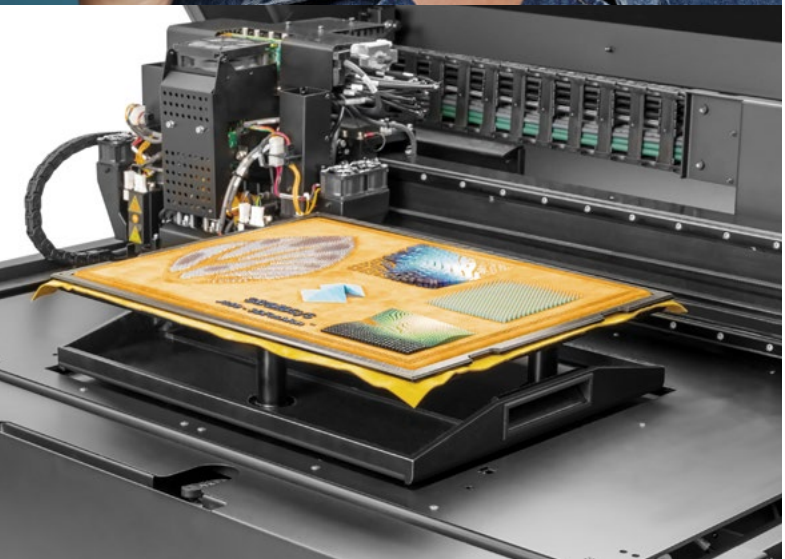
Design Freedom

TechStyle allows designers and high-end fashion brands a new level of design freedom, for personalization and customization, in low-volume production, with seamless integration and minimum downtime. TechStyle has a virtually limitless color palette to choose from, with over 600K available colors in both matte and glossy finishes. Your required print area can be designated on a stretch of fabric up to 2m². The printer's cabinet holds 7 cartridges for materials, from vivid colors to full transparency that will support any design, including textures with both rigid and flexible eco-friendly materials. Easily print with your favorite design software from the multitude of compatible options and output your file direct to GrabCAD™ Print for printing.

Greta Oto Dress
By **threeASFOUR** and **Travis Fitch**
In collaboration with STRATASYS

Chamaeleon Origami Bag
By **Assa Ashuach**
in collaboration with STRATASYS



Unparalleled Productivity

The TechStyle 3D printer is integrated with a sustainable LED unit that, in addition to being environmentally friendly, needs no replacement, no maintenance and allows for fantastic productivity. Switch it on and you are ready to print, no downtime! Refine each design to perfection with an easy-to-use workflow. TechStyle also features an interchangeable tray, for faster production runs and minimum down time.

3DPrinterAcademy

Unmatched Capabilities

- TechStyle has a **2-mode capacity** that enables it to print directly onto textiles as well as used garments for repurposing. 3D models for fashion accessories, such as buttons, cufflinks, and bag clips, can also be printed, to a maximum height of 50mm.
- Experience a new level of efficiency with the patent pending **interchangeable tray**. With this feature, you can quickly swap out one tray for another while a print is running, allowing you to make lightning-fast production runs without any unnecessary down time. It's easy to switch trays quickly and effortlessly, ensuring your projects are printed quickly and efficiently every time.
- The unique patent pending **fabric analyzer** feature will analyze a fabric sample for digital design optimization, resulting in more accurate digital designs and considerable time and cost savings previously associated with iterative pre-production processes.
- TechStyle flexible printing capabilities are unmatched **with an adhesion optimization feature** that allows for a flexible workflow. GrabCAD™ Print software supports the entire printing process from concept to production of your 3D printed design on a large range of fabrics and flexible substrates.

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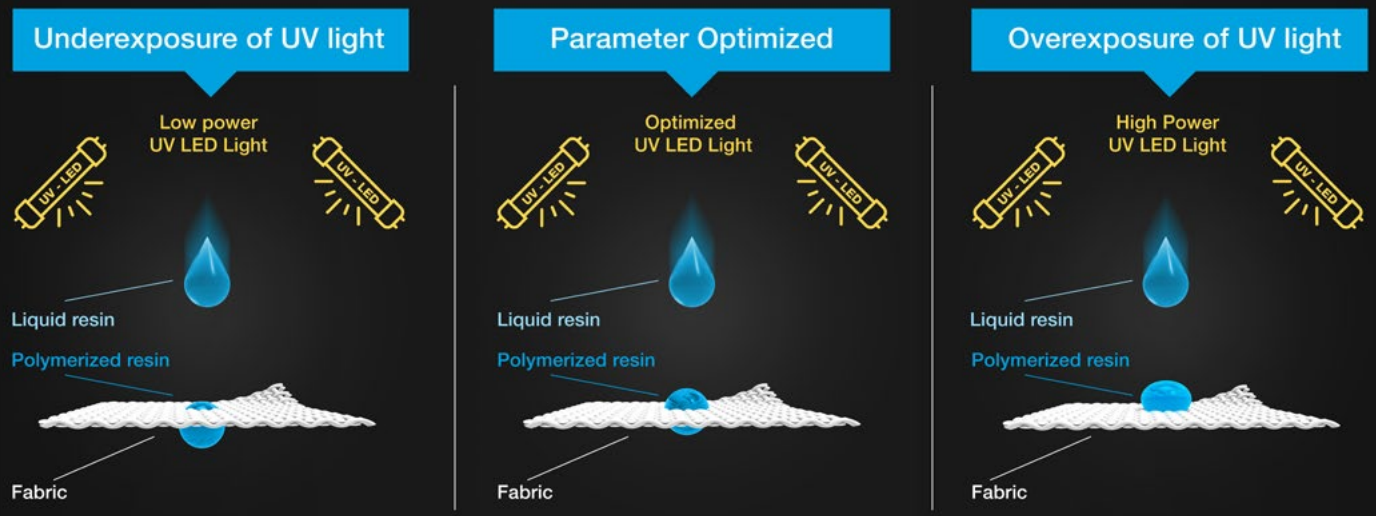
J850™ TechStyle™ LED - Adhesion Optimization



Efficient Workflow

Streamline your workflow with GrabCAD Print software by printing directly from your favorite professional CAD formats, with or without the addition of advanced rendering software. Eliminate time-consuming painting or trial-and-error Pantone color matching with a single-click step in GrabCAD Print. Use smart default settings, tooltips, and notifications to guide you through a seamless printing process. Work with detailed views of your model, tray, and slice preview so you can make any necessary adjustments before going to print. The large, seven-material capacity of the Stratasys J850 TechStyle printer means you can load your most used resins and avoid downtime associated with material changeovers. GrabCAD Print software is an Industry 4.0 compatible system that will fully integrate with manufacturing execution systems (MES) and your digitized production floor.

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Sustainable Manufacturing

Stratasys J850 TechStyle 3D printer promotes mindful manufacturing and low volume production, while eradicating oversupply and reducing unnecessary waste. As a founding member of the Additive Manufacturer Green Trade Association, Stratasys TechStyle eliminates the need for excessive inventories, while used clothing and accessories can be repurposed with the addition of 3D printed elements. Responsible consumption, industry innovation and revised supply chains go hand-in-hand with 3D printing technologies. This enables designers to generate full color, intricate designs, in-house, that can't be achieved through other processes. This is fashion forward; 3D Printing a better tomorrow, today.

DIGI Dress
By **Karim Rashid**
Designed for the STRATASYS Reflection Collection

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All The Specs You Need

Product Specifications					
Industry Compliant Materials	VeroEco™Flex family of semi-flexible materials: Clear, Black, White, Cyan, Magenta, Yellow and VeroEco™ ContactFlex. VeroEco Flex family of materials are in compliance with RSL (Restricted Substances List for Finished Products) industry standards.				
Standard Materials	• VeroUltra™ & VeroVivid™ family of opaque and transparent materials + neutral shades and vibrant colors • Agilus30™ family of flexible materials: Clear, Black, White, Cyan, Magenta and Yellow				
Digital Model Materials	**Unlimited number of digital materials including:** • Over 600K available colors in both matte and glossy finishes • Translucent color tints • Flexible tactile materials in a variety of textures and colors				
Support Materials	SUP705™ (water jet removable) & 705B				
Printed Textile Testing*	ISO standards	100% Cotton	100% Polyester	50/50% Cotton Polyester	Linen
	ISO 105-C06:2010 @40c (1-5)	5	5	5	5
	ISO 105-C06:2010 @60c (1-5)	5	5	5	5
	ISO 105-B02:2013 (1-8)	7-8	7-8	7-8	7-8
Build Size	**Fabric Size Handling:** min 560 x 460mm; max 2 x 2mm **Fabric Thickness:** 0.1-3.0mm Interchangeable Tray for smooth production runs				
Effective Printing Area	460 x 360 x 50 mm (18.1 x 14.2 x 1.9 in) on a stretch of fabric up to $2m^2$				
Layer Thickness	Horizontal build layers down to 27-micron (0.001 in.)				
Workstation Compatibility	Windows 10				
Network Connectivity	LAN - TCP/IP Industry 4.0 Compliance				
System Size and Weight	**J850 TechStyle System:** 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.) **J850 TechStyle Material Cabinet:** 1119 x 656 x 637 mm (44 x 25.8 x 25.1 in.); 153 kg (337 lbs.)				
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30-70% (non-condensing)				
Power Requirements	100–120 VAC, 50–60 Hz, 13.5 A, 1 phase; 220–240 VAC, 50–60 Hz, 7 A, 1 phase				
Regulatory Compliance	CE, FCC, EAC, RCM, R-NZ1				
Software	GrabCAD Print - GrabCAD Printer Connectivity SDK				
Build Modes	**High Mix:** up to 7 base resins, 27-micron (0.001 in.) resolution **High Speed:** up to 3 base resins, 27-micron (0.001 in.) resolution				
Accuracy	**J850 TechStyle System:** Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ or ± 0.06% of part length, whichever is greater. **Software:** Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150µ; above 100 mm – ±0.15% of part length. Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – ±180µ; above 100 mm – ±0.2% of part length.				

*Test results based on 50 x 50 cm textile samples comprising 3D printed elements of various colors.

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3DFASHION
TECHNOLOGY

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